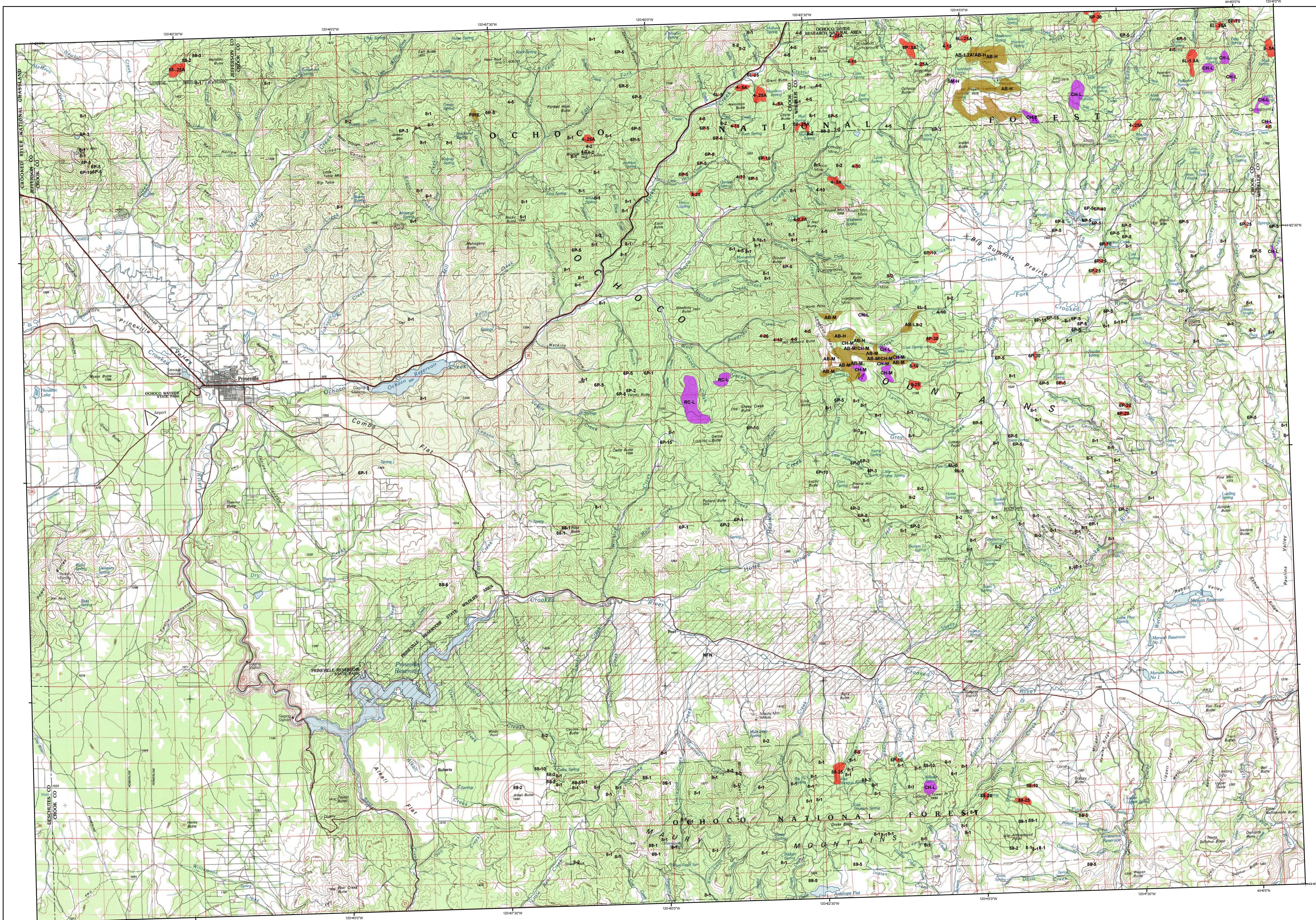


2007 Aerial Insect and Disease Survey
USGS 100K Quad: Prineville - A144120; 5J



Defoliators		Mortality Agents	
Primary Host		Code	Damaging Agent
BB	Spine and spruce	1	Douglas fir engraver
CB	Spine blackhead banded woodworm	2	Douglas fir engraver
BM	Modest woodworm	3	Douglas fir engraver
CS	Spine tortrix	4	Douglas fir engraver
BS	Western spruce budworm	5	Fir engraver
CH	Spine light colored sawfly	6	Mountain pine beetle
LG	Western larch	6B	Mountain bark beetle
HJ	Green striped forest looper	6K	Mountain pine beetle
LD	Spine and spruce	6M	Mountain pine beetle
LS	Black pine needle scale	6P	Mountain pine beetle
ML	Spine and spruce	6W	Mountain pine beetle
KL	Black larch budmoth	7	Western pine beetle
MS	Spine and spruce	7B	Western pine beetle
NJ	Spine budmoth	7C	Western pine beetle
NS	Needle miner	7D	Western pine beetle
NW	Needle miner	7E	Western pine beetle
NK	Needle miner	7F	Western pine beetle
ML	Needle miner	7G	Western pine beetle
NS	Needle miner	7H	Western pine beetle
NW	Needle miner	7I	Western pine beetle
NS	Needle miner	7J	Western pine beetle
NS	Needle miner	7K	Western pine beetle
NS	Needle miner	7L	Western pine beetle
NS	Needle miner	7M	Western pine beetle
NS	Needle miner	7N	Western pine beetle
NS	Needle miner	7O	Western pine beetle
NS	Needle miner	7P	Western pine beetle
NS	Needle miner	7Q	Western pine beetle
NS	Needle miner	7R	Western pine beetle
NS	Needle miner	7S	Western pine beetle
NS	Needle miner	7T	Western pine beetle
NS	Needle miner	7U	Western pine beetle
NS	Needle miner	7V	Western pine beetle
NS	Needle miner	7W	Western pine beetle
NS	Needle miner	7X	Western pine beetle
NS	Needle miner	7Y	Western pine beetle
NS	Needle miner	7Z	Western pine beetle
NS	Needle miner	8	Western pine beetle
NS	Needle miner	8A	Western pine beetle
NS	Needle miner	8B	Western pine beetle
NS	Needle miner	8C	Western pine beetle
NS	Needle miner	8D	Western pine beetle
NS	Needle miner	8E	Western pine beetle
NS	Needle miner	8F	Western pine beetle
NS	Needle miner	8G	Western pine beetle
NS	Needle miner	8H	Western pine beetle
NS	Needle miner	8I	Western pine beetle
NS	Needle miner	8J	Western pine beetle
NS	Needle miner	8K	Western pine beetle
NS	Needle miner	8L	Western pine beetle
NS	Needle miner	8M	Western pine beetle
NS	Needle miner	8N	Western pine beetle
NS	Needle miner	8O	Western pine beetle
NS	Needle miner	8P	Western pine beetle
NS	Needle miner	8Q	Western pine beetle
NS	Needle miner	8R	Western pine beetle
NS	Needle miner	8S	Western pine beetle
NS	Needle miner	8T	Western pine beetle
NS	Needle miner	8U	Western pine beetle
NS	Needle miner	8V	Western pine beetle
NS	Needle miner	8W	Western pine beetle
NS	Needle miner	8X	Western pine beetle
NS	Needle miner	8Y	Western pine beetle
NS	Needle miner	8Z	Western pine beetle
NS	Needle miner	9	Western pine beetle
NS	Needle miner	9A	Western pine beetle
NS	Needle miner	9B	Western pine beetle
NS	Needle miner	9C	Western pine beetle
NS	Needle miner	9D	Western pine beetle
NS	Needle miner	9E	Western pine beetle
NS	Needle miner	9F	Western pine beetle
NS	Needle miner	9G	Western pine beetle
NS	Needle miner	9H	Western pine beetle
NS	Needle miner	9I	Western pine beetle
NS	Needle miner	9J	Western pine beetle
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NS	Needle miner	9M	Western pine beetle
NS	Needle miner	9N	Western pine beetle
NS	Needle miner	9O	Western pine beetle
NS	Needle miner	9P	Western pine beetle
NS	Needle miner	9Q	Western pine beetle
NS	Needle miner	9R	Western pine beetle
NS	Needle miner	9S	Western pine beetle
NS	Needle miner	9T	Western pine beetle
NS	Needle miner	9U	Western pine beetle
NS	Needle miner	9V	Western pine beetle
NS	Needle miner	9W	Western pine beetle
NS	Needle miner	9X	Western pine beetle
NS	Needle miner	9Y	Western pine beetle
NS	Needle miner	9Z	Western pine beetle
NS	Needle miner	10	Western pine beetle
NS	Needle miner	10A	Western pine beetle
NS	Needle miner	10B	Western pine beetle
NS	Needle miner	10C	Western pine beetle
NS	Needle miner	10D	Western pine beetle
NS	Needle miner	10E	Western pine beetle
NS	Needle miner	10F	Western pine beetle
NS	Needle miner	10G	Western pine beetle
NS	Needle miner	10H	Western pine beetle
NS	Needle miner	10I	Western pine beetle
NS	Needle miner	10J	Western pine beetle
NS	Needle miner	10K	Western pine beetle
NS	Needle miner	10L	Western pine beetle
NS	Needle miner	10M	Western pine beetle
NS	Needle miner	10N	Western pine beetle
NS	Needle miner	10O	Western pine beetle
NS	Needle miner	10P	Western pine beetle
NS	Needle miner	10Q	Western pine beetle
NS	Needle miner	10R	Western pine beetle
NS	Needle miner	10S	Western pine beetle
NS	Needle miner	10T	Western pine beetle

USGS 100K Quad: Prineville - A144120; 5J
2007 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: December 3, 2007

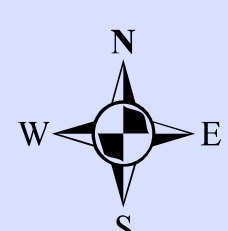
Legend

 **Defoliating Agents**

 **Mortality Agents**

 **Other Damage**

 **Areas Not Flown**



The map base was created with TOPO! (Copyright 2001, National Geographic); available online at: www.ngmapstore.com

A data dictionary, digital copies of this map and Arcgis insect and disease data are available at:
www.fs.fed.us/r6/nr/fid/data.shtml

How the Aerial Surveys Are Conducted

Data represented on this map are based on trees visibly affected by forest insects and diseases detected and recorded during aerial survey flights conducted by the USDA Forest Service and the Oregon Department of Forestry. Observers have just a few seconds to recognize the color difference between healthy and damaged trees of different species; diagnose causal agents correctly; estimate intensity; delineate the extent of damage; and precisely record this information on a georeferenced, digital map. Air turbulence, cloud shadows, distance from aircraft, haze, smoke and observer experience can all affect the quality of the survey. These data summaries provide an estimate of conditions on the ground and may differ from estimates derived by other methods.

The aerial survey provides information on the current status for many causal agents, and is important when examining insect activity trends by comparing historical and current survey data over large areas.

Overview surveys are a 'snap shot' in time and therefore may not be timed to accurately capture the true extent or severity of a particular disturbance activity. Specially designed surveys with modified flight patterns and timing may be conducted to more accurately delineate the extent and severity of a particular disturbance agent. Special surveys, such as Swiss needle cast surveys, are conducted when resources are available to address situations of sufficient economic, political or environmental importance.

DIRECT ALL INQUIRIES TO:



Oregon Department of Forestry
Forest Health Management
2600 State Street
Salem, Oregon 97310

-- OR --



USDA Forest Service, Region 6
Natural Resources
Forest Health Protection
PO Box 3623
Portland, Oregon 97208

****DISCLAIMER****

The insect and disease data presented should only be used by an indicator of insect and disease activity, and should be ground-checked for precise location, extent, severity and causal agent.

Color code polygons show locations where trees were recently killed or defoliated. Intensity of damage is variable and not all trees within color polygons are dead or defoliated.

The cooperators reserve the right to correct, update, modify or replace GIS products without notice. Using this map for purposes other than those for which it was intended may yield unexpected or inaccurate results.